



1/7

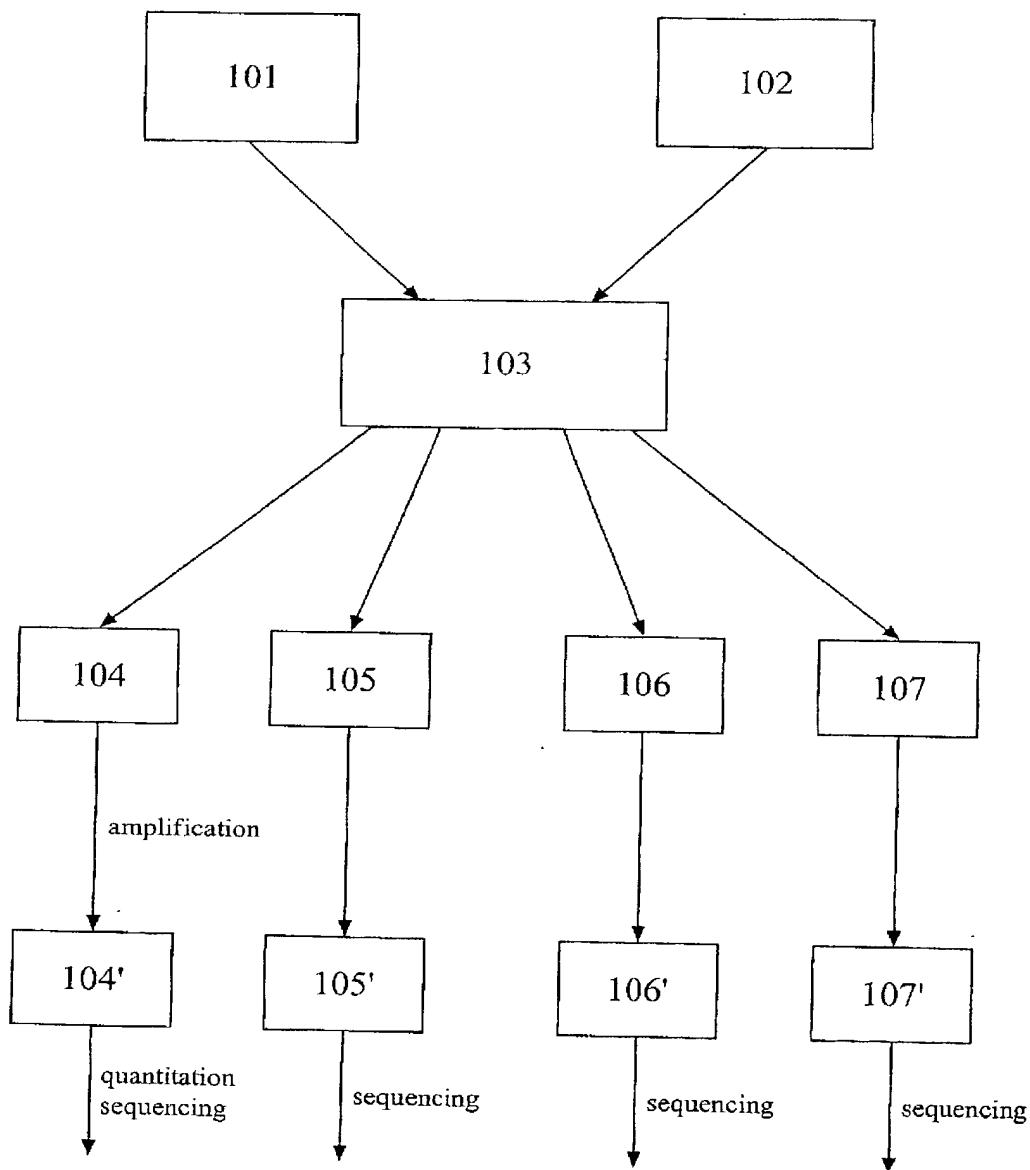


FIG. 1



2/7

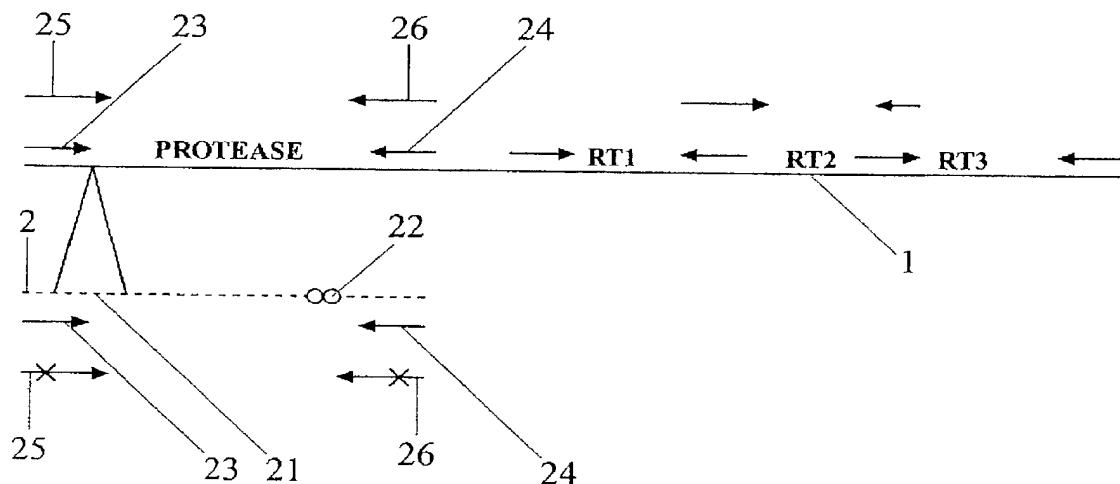


FIG. 2A

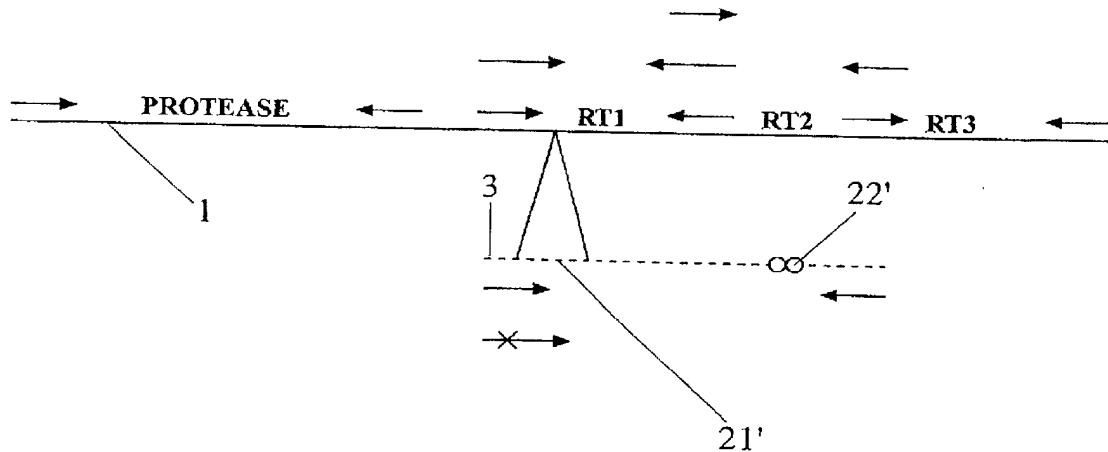


FIG. 2B



3/7

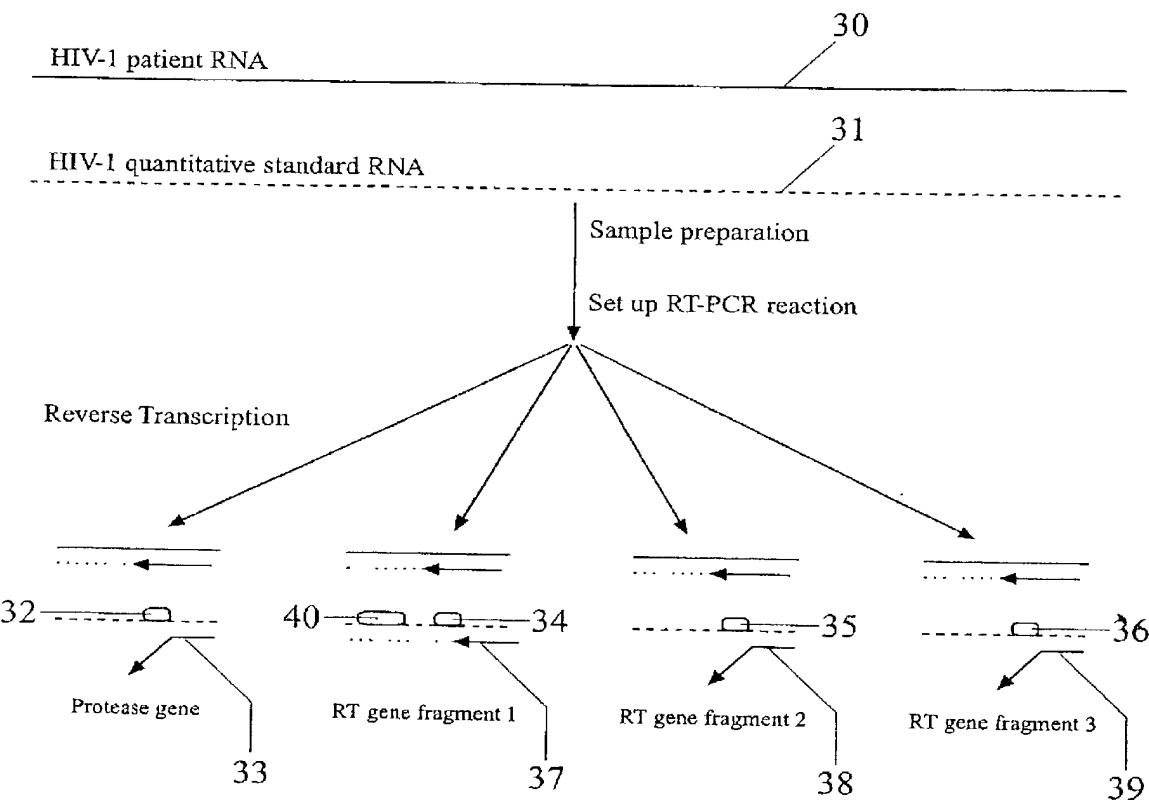


FIG. 3A

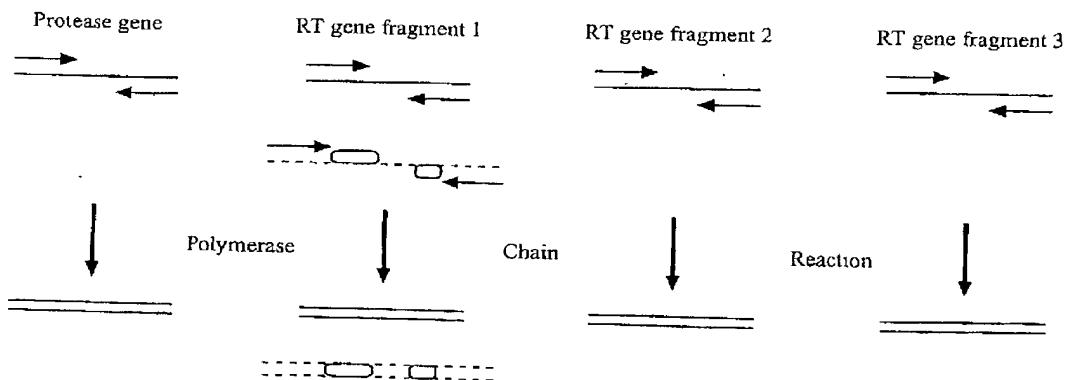


FIG. 3B



4/7

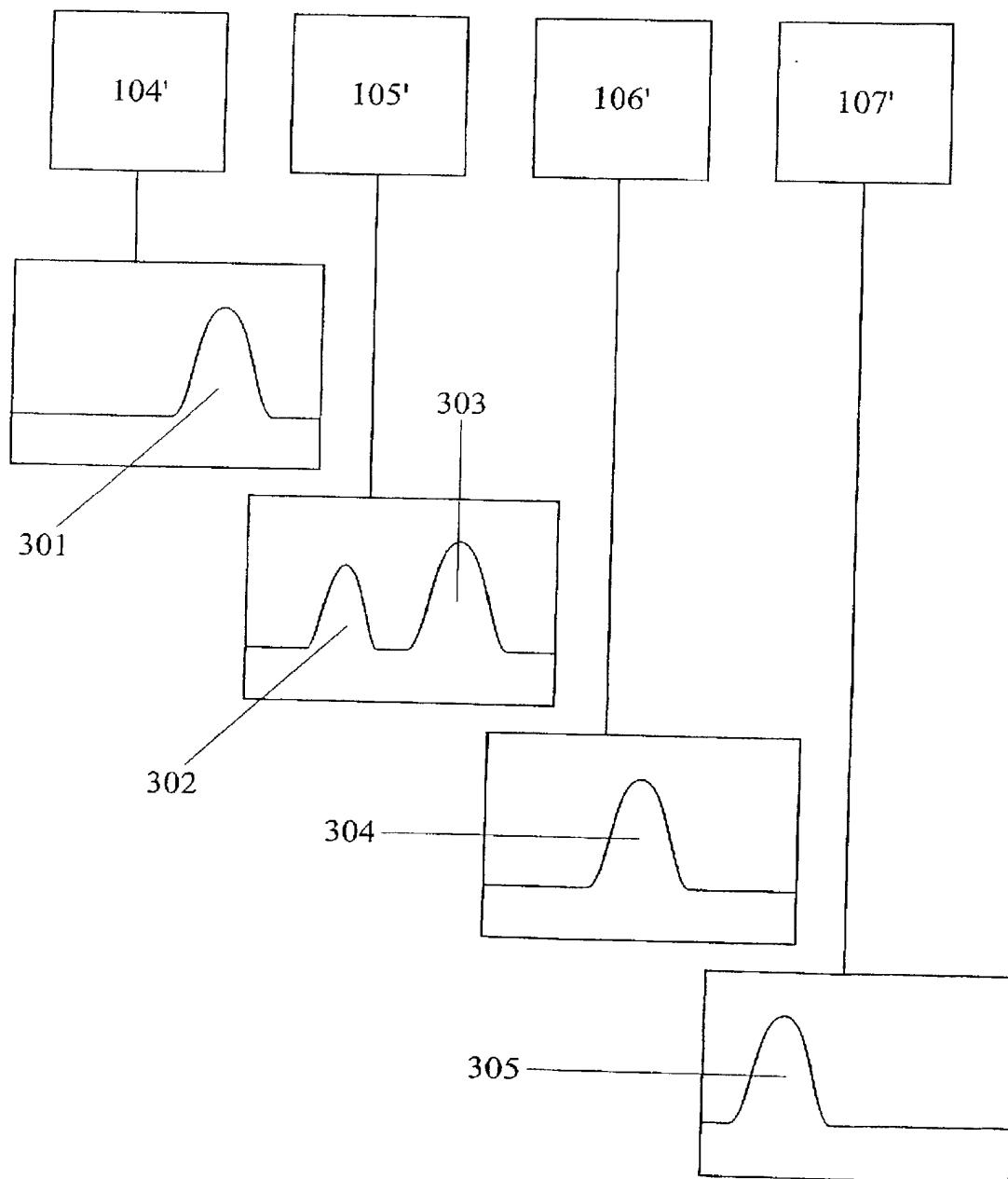


FIG. 3C



5/7

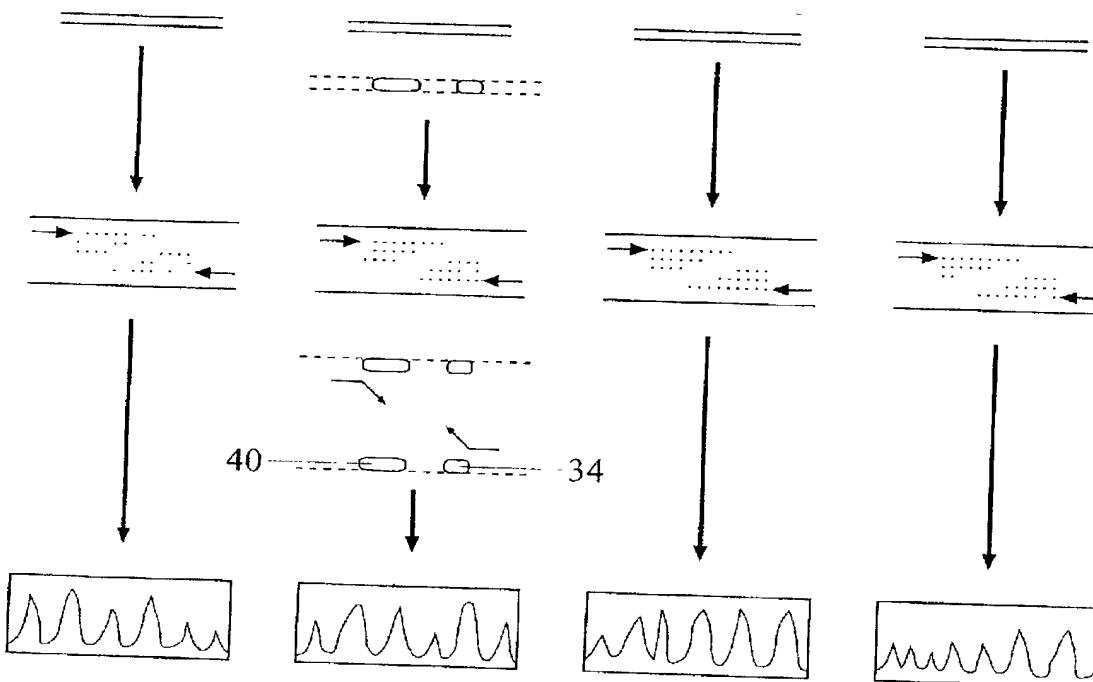


FIG. 3D

Not I restriction site for linearizing pBKBH10S for production of ~9 kB cRNA transcripts

T7 Promoter - used by T7 RNA polymerase to transcribe sense strand HIV-1 RNA sequences.  
+1

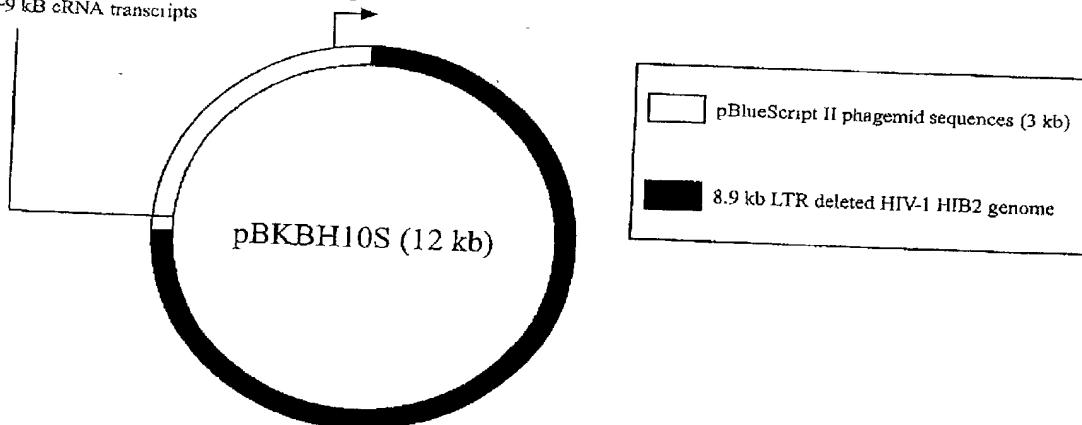


FIG. 4



6/7

5' to 3' direction of HIV-1 sense sequence 

RT562F-A primer (for sequencing) →

RT558F primer (for RT-PCR) 

5' aaaagttaaacatggccattgcacag aaaaaaaaaataaaagcatttagtagaaattgtatcagagatggaaaagg 3' base pairs  
3' ttttcaatttgttacccgttaactgtc ttcttttttattttcgtaatcatctttaaacatgtctctacctttct 5' 2606 to 2680

16 bp insertion added between nucleotides 2631 and 2632. The four terminal 3' nucleotides sequencing primer RT562F-A do not hybridize to sequences in the insert.

FIG. 5

5' to 3' direction of HJV-1 sense sequence 

### Mutagenesis of nucleotides 3007 and 3008 to prevent primer extension of RT959R sequencing primer

5' tcagtracaatgtgttccacaggat gg aaaggatcaccagcaatattccaaagtagc base pairs  
3' agtcatgttacacgaaagggttcccta cc ttctctagtggtcgtataagggttcatcg 2981 to 3038

RT964-2-R primer (for RT-PCR)

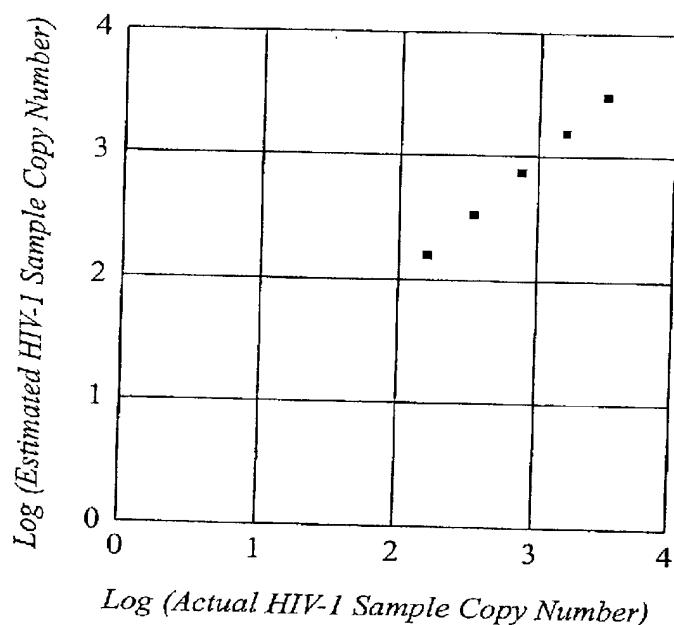
RT959R primer (for sequencing)

FIG. 6



7/7

### Estimated vs. Actual HIV-1 Sample Copy Number



#### Regression Statistics

slope: 1.060750  
error of slope: 0.032348  
y-Int.: -0.204487  
error of y-Int.: 0.094912  
x mean: 2.903090  
y mean: 2.874965  
x Std. Dev.: 0.475971  
y Std. Dev.: 0.505588  
R value: 0.998612

**FIG. 7**